

CONFIDENTIAL

30 March 1961

MEMORANDUM FOR: Office of Logistics/Procurement Division/Contract Branch**SUBJECT :** Request for Additional Funds under Task RR of Contract RD-26 with [REDACTED]

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1. Contract RD-26, Task RR, was established in January 1960 for research and development of a reduced-sized incinerator for the destruction of paper files and documents. In May 1960 Supplement #1 to Task RR was issued increasing the scope of the work to include selected additions and modifications to this incinerator and to incorporate certain changes in the unit. With the issuance of Supplement #2 in October 1960 the contractor was requested to prepare working drawings of the prototype incinerator which had been developed and a resume of the major problems anticipated for the fabrication of this Model 2 Air-Fed Incinerator. As the result of additional requirements placed upon TSD/EB, in November 1960 Supplement #3 to Task RR was issued for the fabrication and development of an additional Model 2 Air-Fed Incinerator that could be powered by 110 volt, 50 or 60 cycle, single phase current rather than 220 volt, 3 phase, 60 cycle current used on the first prototype of the Model 2 Air-Fed Incinerator. The time and effort required in the search of a suitable 50 or 60 cycle, 110 volt, single-phase electric motor with appropriate starter switches has exceeded that anticipated by the contractor at the time that Supplement #3 was issued. As a result, and in accordance with the contractor's proposals attached hereto, additional funds are required to conclude the work on the Model 2 incinerator program.

2. It is therefore requested that additional funds in the amount of \$4,100.00 be made available to the contractor under Task RR to complete the work required under Supplement #3 of Task RR. No additional fee is requested since these additional funds are to complete work within the original scope of Supplement #3. Charges are to be made against Allotment Number 1125-1390-3901.

3. It is further requested that the expiration date of Task RR be extended until 1 July 1961.

4. Additional information concerning this request may be obtained by contacting the project engineer for this program, [REDACTED] Room 210, West Outbuilding, extension [REDACTED]

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Chief, TSD/Engineering Branch

Distribution:

Orig & 1 - Addressee
1 - TSD/EAS
1 - TSD/Security
1 - [REDACTED]
1 - DD-178B

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Attachments:

Proposals (2)

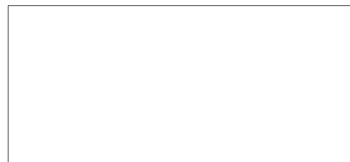
TSD-913-27-1526-61

APPROVED FOR THE OBLIGATION OF FUNDS: [REDACTED]

Research Director

Date

In replying please address:



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March 7, 1961

Dear Sir:

This letter constitutes a supplement to our letter proposal dated February 14, 1961, which proposed additional research directed toward the further development of the Model 2 incinerator, particularly with regard to its motor-blower-assembly capability and adaptability to different kinds of electric power. It is submitted in response to a telephone conversation on March 6, 1961, during which your technical representative requested additional detailed information regarding the unanticipated difficulties encountered in the selection and procurement of a suitable 50- or 60-cycle, 110-volt, single-phase electric motor and associated starter switch.

The difficulties stemmed primarily from the need to obtain a relatively small electric motor which would operate interchangeably on 110-volt, single-phase current of either of the two frequencies. The space available within the lower section of the Model 2 incinerator for housing a suitable motor as well as blower was quite limited.

In the course of our efforts in regard to one of the objectives of the program, it was found that a suitable small electric motor for operation on 50- or 60-cycle, 220-volt, 3-phase current was commercially available "off the shelf". However, inquiries directed to several companies, including the



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[redacted] revealed that an equivalent 50- or 60-cycle, 110-volt, single-phase motor was not available.

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There followed many discussions and negotiations with various personnel of particularly [redacted] organizations.

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These sessions were spent in precisely defining the essential characteristics of the motor of interest; and then in comprehensively studying the characteristics and capabilities of their respective "off the shelf" motors and also of possibly applicable motors which were not quite ready for production.

Motors for single-phase, 110-volt service incorporate an internal centrifugal starting switch which normally permits operation at only one motor speed or on only one frequency. Off and on, [redacted]

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personnel indicated that they could provide a motor suitable for the two frequencies; and then subsequently, they reported that on further investigation, they had found that their selections were inadequate for any of several reasons. In one instance, the size of the proposed motor was slightly excessive. In another case, the selected motor would not quite satisfy the torque requirements for starting the [redacted] 17 MW blower; this blower had been chosen for this application because it was the only unit found that provided the needed air-flow capacity and also was compact enough to fit into the limited space within the incinerator lower section.

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Currently, it appears that the [redacted] will probably be able to supply an appropriately small 50-cycle motor guaranteed to operate on 50- or 60-cycle, 110-volt, single-phase current. Also, this motor can be equipped with a necessary double extended shaft, for use in connecting an emergency standby gasoline engine into the system, when necessary.

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With regard to starter switches for use with the single-phase and the 3-phase electric motors, once again the need for interchangeable operation on either 50- or 60-cycle current presented a problem. It was considered prudent to attempt to provide switches which incorporated overload as well as undervoltage protection. However, it was found that switches which had those provisions would not operate interchangeably on both frequencies; the holding coils which were suitable for 60-cycle current would not permit appropriate operation on 50-cycle current, and vice versa.

Attempts were made to resolve the starter-switch problem in a manner that would provide the protection considered to be reasonable and necessary, and also some practical degree of versatility and convenience of operation. On the basis of a discussion with your technical representative on February 27, there appears to be a solution to this problem.

Considerable time and effort, over and beyond those anticipated and provided for in the contract, were expended in the search for a suitable 50- or 60-cycle, 110-volt, single-phase electric motor and appropriate starter switches for both motors of interest. As a result, all of the funds under the contract were expended, and additional funds and time are needed to provide for concluding the effort on the current Model 2 incinerator program. In the interim, the activity on this program has been suspended, pending the consummation of a contractual amendment based on our above-mentioned proposal dated February 14, 1961.

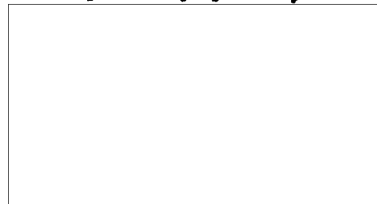
If you need any additional information, please do not hesitate to call us. Expedient consideration of this matter would be appreciated,

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so that we can minimize the lapse in the continuity of our efforts under this program.

Very truly yours,



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EES:sjm

In Duplicate